BRUHAT BANGALORE MAHANAGARA PALIKE

EXCECUTIVE ENGINEER DASARAHALLI PROJECT DIVISION

Name of Work:Construction Compound wall And Other Development Works at Shetttyhalli Sub Division Office in Mallasandra Ward No. 13

JOB NUMBER.: Sl.No.-6 Est. Amount = 50.00 Lakhs

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB 300-2. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3(Page No. 141, It No. 19.2 of KPWD S.R 2016-17)								
	Compound Wall with Column	Cum	1	45.00	1.00	1.00	45.00		
	Gril Compound		1	55.00	1.00	1.00	55.00		
	For Compound Wall Column		35	1.70	1.70	2.00	202.30		
	Drain		1	120.00	1.10	0.90	118.80		
	Sump		1	3.00	3.00	2.30	20.70		
						Total Qty	441.80		
	Deduct for Compound Wall Column		35	1.70	1.70	1.00	101.15		
						Total Qty	101.15		
						Total Qty	340.65	222.04	75,637.93
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 (Page No. 12, It No. 4.2 of KPWD S.R 2016-17)								
	Compound Wall with Column	Cum	1	45.00	1.00	0.15	6.75		
	Gril Compound		1	55.00	1.00	0.15	8.25		
	For Compound Wall Column		35	1.70	1.70	0.15	15.17		
	Drain		1	120.00	1.10	0.15	19.80		
	Sump		1	3.00	3.00	0.15	1.35		
						Total Qty	51.32		
	Deduct for Compound Wall Column		35	1.70	1.70	0.15	15.17		
						Total Qty	15.17		
						Total Qty	36.15	5449.68	1,97,005.93
3	KSRB 5.4-3: Providing and constructing granite I trap I basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of aterials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13 (Page No. 23, It No. 5.13 of KPWD S.R 2016-17)								
	Compound Wall with Column	Cum	1	45.00	0.80	0.40	14.40		
			1	45.00	0.60	0.40	10.80		
	Gril Compound		1	55.00	0.80	0.40	17.60		
			1	55.00	0.60	0.40	13.20		
						Total Qty	56.00		
	Deduct for Compund Wall Column		35	0.23	0.23	0.80	1.48		
						Total Qty	1.48		
						Total Qty	54.52	6019.92	3,28,198.81
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No. 23, It No. 5.9 of KPWD S.R 2016-17)								
	Compund Wall	Cum	1	45.00	0.45	0.40	8.10		
	Gril Compound		1	55.00	0.45	0.40	9.90		
						Total Qty	18.00		
	Deduct for Compund Wall Column		35	0.23	0.23	0.60	1.11		
						Total Qty	1.11		
						Total Qty	16.89	5405.40	91,292.34

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Sl No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
5	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.(Page No. 12, It No. 4.5 of KPWD S.R 2016-17)								
	Coping for Compound Wall	Cum	1	45.00	0.45	0.10	2.03		
	Coping for Gril Compound		1	55.00	0.45	0.10	2.48		
						Total Qty	4.50	5985.36	26,934.12
6	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page No. 15, It No. 4.31 of KPWD S.R 2016-17)								
	Plinth for Compound Wall	Sqm	2	45.00		0.30	27.00		
	Plinth for Compound Wall Top		2	45.00		0.20	18.00		
	Plinth for Grill Compound Wall		2	55.00		0.30	33.00		
	Plinth for Grill Compound Wall Top		2	55.00		0.20	22.00		
	Footing for Compound Wall		35*4	6.00		0.50	420.00		
	Column for Compound Wall		15*4	0.23		4.00	55.20		
	Column for grill Compound Wall		20*4	0.23		3.00	55.20		
	Drain Bottom Slab		2*1	120.00		0.20	48.00		
	Drain wall		2*2	120.00		0.60	288.00		
	Sump Bottom slab		2	11.20		0.20	4.48		
	Sump wall		2	11.20		2.20	49.28		
	Sump Covering Slab		2	2.50	2.50		12.50		
							1032.66	316.44	3,26,774.93
7	KSRB 4.9.2 : Providing TMT bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.6.3(Page No. 17, It No. 4.46.2 of KPWD S.R 2016-17)								
	Steel								
	One cubic mt 70kg for Item no 8	Tonne	1	6.56			6.56		
						Total Qty	6.56	65455.56	4,29,562.88
8	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3its confirming to 1S9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for ail works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6(Page No. 14, It No. 4.13 of KPWD S.R 2016-17)								
	Plinth for Compound Wall	Cum	1	45.00	0.20	0.30	2.70		
	Plinth for Compound Wall Top		1	45.00	0.20	0.15	1.35		
	Plinth for Grill Compound Wall		1	55.00	0.20	0.30	3.30		
	Plinth for Grill Compound Wall Top		1	55.00	0.20	0.15	1.65		
	Footing for Compound Wall		35	1.50	1.50	0.45	35.44		
	Column for Compound Wall		15	0.23	0.23	3.90	3.09		
	Column for Grill Compound Wall		20	0.23	0.23	2.90	3.07		

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Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	Drain Bottom Slab		1	120.00	0.90	0.15	16.20		
	Drain Wall		2	120.00	0.15	0.60	21.60		
	Sump Bottom Slab & Covering Slab		2	2.80	2.80	0.15	2.35		
	Sump Wall		4	2.50	0.15	2.00	3.00		
						Total Qty	93.75	6650.64	6,23,513.13
9	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications, specification. No. KBS 2.9(Page No. 6, It No. 2.10 of KPWD S.R 2016-17)								
	up to 50% of Excavation Qty Item No.2	Cum					170.33		
						Total Qty	170.33	137.16	23,361.78
10	KSRB 5-11: Providing and constructing load bearing wall with cement concrete cavity blocks (Hollow blocks) of size 400x200x200 mm Grade B having a minimum face shell thickness of 30mm and web thickness of 25mm with block density between 1100kg/m3 and 1500kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.KBS No.5.4.(Page No. 24, It No. 5.24.1 of KPWD S.R 2016-17)								
	For Compound Wall	Sqm	1	45.00		2.50	112.50		
	Deduct for Column		15	0.23		2.00	6.90		
						Total Qty	105.60	1023.84	1,08,117.50
11	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No. 15.15, It No. 113 of KPWD S.R 2016-17)								
	For Compound Wall	Sqm	2	50.00	2.50		250.00		
	For Compound Wall top		1	50.00	0.23		11.50		
						Total Qty	264.20	263.52	69,621.98
12	KSRB 15.10.1 Providing white washing to new wall surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. (Page No. 115, It No. 15.38 of KPWD S.R 2016-17)								
	Same Qty as Plastering item No 14	Sqm					264.20		
						Total Qty	264.20	8.64	2,282.69
13	Providing And fabricating M.S Grils os as per approved drawing & Specification								
	Compound Wall	Sqm							
	Grils		1	55.00		2.00	110.00		
						Total Qty	110.00	9144.14	10,05,855.40
14	Providing and fabricating M.S Gateas per approved drawing & Specification								
	Gate	Sqm	1	4.50		3.00	13.50		
						Total Qty	13.50	12447.00	1,68,034.50
15	For roof Slab & Terraces Providing & applying water proofing to roof slab, terraces, landscape area, podium etc., using modified polyurethane cures (conforming to ASTM C836-84) to give a tough elastomeric waterproof membrane on the surface. The surface shall be cleaned free from dust and other particle before usage. Standards & Methodology: This compound has a medium viscosity grade with 620% of elongation and shall be done either by roller application / brush application/ spray. This will be applied for a thickness of 1.3mm first layer 0.5mm & 2nd layer 0.8mm. After applying the 2nd layer sand sprinkle shall be doneto provide mechanical key. (I.tm No.38.2, P.No.271, SR:2016-17)								
	TERRACES	Sqm	1	27.62	21.42		591.62		
						Total Qty	591.62	756.00	447265.02
16	KSRB 0.5-3.1: Providing lime surkhi mortar of mix 1:3 (1 lime putty : 3 surkhi) including cost of all materials, labour charges, HOM of machin3ry complete as per specifications. Specification No. KBS(Page No.-2 I.No-1.14 of KPWD S.R 2016-17)								
	TERRACES	Cum	1	27.62	21.42	0.05	29.58		
						Total Qty	29.58	3061.80	90,571.17

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Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	Bore well								
17	Geophysical investigation of site for sinking borewell for supplying drinking water to the habition either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting vennur or schiumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity and acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including trasportation of instruments and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)								
		Nos	1				1.00		
							Total Qty 1.00	1882.00	1882.00
18	Sinking of borewell of 165mm clear using super fast hydraulic rig of capacity 250 PSIG & above 900 MCF & above in all strata including over burden upto 22m, fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables, etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) (PRE SR 2012-13, Page No.36, item No.9.1)								
	0.00 to 50.00 Mtr.	m	1	50.00			50.00	306.00	15300.00
	50.00 to 100.00 Mtr.		1	50.00			50.00	400.00	20000.00
	100.00 to 150.00 Mtr.		1	50.00			50.00	445.00	22250.00
	150.00 to 200.00 Mtr.		1	50.00			50.00	470.00	23500.00
	200.00 to 250.00 Mtr.		1	50.00			50.00	544.00	27200.00
	250.00 to 300.00 Mtr.		1	50.00			50.00	583.00	29150.00
19	Supply of ISI mark 175mm nominal Bore, Plain end Steel casing pipe grade of steel Fee 410 of wall thickness 5.4mm thick conforming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1378/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mtrs. both ends threads conforming to IS 554/1985, one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (inclusive of all taxes and duties) Prices include collar medium duty. (PRE SR 2012-13, Page No.ii item No.53								
		Rmt	1	32.00			32.00		
							Total Qty 32.00	1325.00	42400.00
20	Providing Borewell Collars 175mm dia (Material Component P. No.11/I.55)								
		Each	1	5.00			5.00		
							Total Qty 5.00	150.00	750.00
21	Providing Borewell Cap 175mm Dia (Material Component P. No.11/I.54)								
		Each	1	1.00			1.00		
							Total Qty 1.00	100.00	100.00
22	Supply and delivery of galvanized mild steel tubes heavy class (B-class) conforming to IS 1239-1979 part I/1979 with latest amendments with ISI Mark haeavy duty collar and other end fitted with protective cover 50mm dia.(Material Component Sl No. 509, KPWD SR 2016-17)								
		Rmt	1	300.00			300.00		
							Total Qty 300.00	321.00	96300.00
23	Providing Borewell Collars 50 mm dia (Material Component)								
		Each	1	40.00			40.00		
							Total Qty 40.00	125.00	5000.00
24	Supplying of Submersible Three Phase Pumpset for borewell of approved make ATLANTA, SUGUNA, C.R.I., KIRLOSKAR and other equivalent pumps. 10 HP /7.5KW 20 stages (Rate List of Materials Sl No. 21 P No. XXXXII, KPWD SR 2016-17)								
		Each	1	1.00			1.00		
							Total Qty 1.00	50100.00	50100.00
25	Erection of pumpset including aligning and balancing with all necessary erection material and labour including supply and errection of two pair of supporting clamps borewell cap, cable clips, GI pipe and transportation GI pipe from Centrla Stores to site 50mm dia GI pipe will be spplied by Departmentally at free of cost								
		Nos	1	1.00			1.00		
							Total Qty 1.00	3900.00	3900.00

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Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
26	Supply and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and latest amendments of IS 694/1990 and Virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts.1 x 3 x 4 sqmm (P.No 535, I.No 30 (c) Group A BWSSB 2013-14 SR)								
		Rmt	1	300.00			300.00		
						Total Qty	300.00	164.29	49287.00
27	Supplying of LTUG cable having aluminium conductor PVC insulated sheeted galvanized steel wire tape armoured cable with PVC other sheating 101 KV class 4 core 16sqmm.including laying charges (P.No 553, I.No 10 (d) BWSSB SR 2013-14)								
		Nos	15				15.00		
						Total Qty	15.00	169.95	2549.25
28	Supplying & fixing LT Iron pot heads suitable for 1.1KV class UG Cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts and nuts and washers etc., 4 core 16 sqmm. (P.No 555, I.No 16 (b) BWSSB SR 2013-14)								
		Nos	1				1.00		
						Total Qty	1.00	271.92	271.92
29	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 65mm. (P.No 555, I.No 15 (b) BWSSB SR 2013-14)								
		Rmt	1	5.00			5.00		
						Total Qty	5.00	249.26	1246.30
30	Supplying, fixing, wiring, earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia. 2.90mm thick GI pipe 2.5mtr. long buried in a pit. The Pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 120mm dia. bolt, nuts, washers and checknuts etc., the pipe shall have 16 through of 122mm dia								
		Nos	1				1.00		
						Total Qty	1.00	1650.00	1650.00
31	Gun Metal 50mm Non Return Vavle of Horizental type of PWD SR 2016-17 pg no. XXIII Item No. 658								
		Each	1	1.00			1.00		
						Total Qty	1.00	1213.70	1213.70
32	Supplying and fixing polished wood board made of not less than 15mm thick on both sides with made out of not more than 2 piece and fixing the same to the wall using tapered inverted wooden plugs screws etc., 500 x 500 x 65mm (20'x20'x5") .(P.No 521, I.No 2 (f) BWSSB SR 2013-14)								
		Each	1	1.00			1.00		
						Total Qty	1.00	311.58	311.58
33	Supplying and fixing MCB on existing MCB distribution board using necessary materials and wiring complete as required 32 amps.(P.No 526, I.No 13D (a) BWSSB SR 2013-14)								
		Each	1	1.00			1.00		
						Total Qty	1.00	906.40	906.40
34	Supplying and fixing one of the fuse cut outs having porcelain base approved quality on the existing wooden block and wiring complete 16amps.								
		Each	1	3.00			3.00		
						Total Qty	3.00	231.00	693.00
35	Shunt capacitor conforming to IS 2843, 3 phases 400/400 Volts grade for power factor improvements of rotating machinery.								
		Each	1	1.00			1.00		
						Total Qty	1.00	1350.00	1350.00
36	Fixing of shunt capacitor with necessary clamps bolts and nuts to existing wooden meter boards including banking of more than the capacitor.								
		Each	1	1.00			1.00		
						Total Qty	1.00	100.00	100.00

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Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
37	Servicing the installation by applying to the concerned BECSOM authorities including fixing of energy meter as per the procedure of BESCOM								
		No.s	1	1.00			1.00		
						Total Qty	1.00	10000.00	10000.00
38	3001 PVC Pipes 10KG/Sqcm 90mm outerdia Page no. XXXI Item No. 902								
		M	1	585.00			585.00		
						Total Qty	585.00	350.00	204750.00
								Total Constrution cost	46,26,191.27
								Design Report,Proof Checking & PMC Amount	92,523.83
								Tender Premium 6%	2,77,571.48
								Sub Total	49,96,286.57
								Miscellaneous & Rounding Off	3,713.43
								Grand Total	50,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2015-16
4. The provisions made in the estimate are necessary and essential.

SRI SAI CONSULTANTS * BANGALORE-90 *

Consultants
For Sri Sai Consultants

Assistant Engineer
[redacted]
BBMP - Bangalore

Assistant Executive Engineer
Dasrahalli Project Division
BBMP - Bangalore

Executive Engineer
Dasrahalli Project Division
BBMP - Bangalore

ನಂ: 40/17-18 ದಿನಾಂಕ: 20/12/2017
ರೂ: 5000000/- Fifty Lacs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ

ನಂ. CE/DS/390/17-18 ದಿನಾಂಕ: 21/12/2017
ರೂ. 50.00 lakhs only
ಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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